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**EG&G ROCKY FLATS** 

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CLASSIFICATION

UNCLASSIFIED CONFIDENTIAL SECRET

**EG&G ROCKY FLATS INC** 

ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402 0464 (303) 966 7000

February 22 1995

95 RF 01959

Doug Dennison Advanced Science Incorporated 405 Urban Street Suite 401

Lakewood Colorado 80228 1236

OPERABLE UNIT 5 (OU5) WOMAN CREEK PRIORITY DRAINAGE MINING SCENARIO **EVALUATION CAB 017 95** 

Action Incorporate the following information into the Risk Assessment

This letter provides a summary evaluation of subsurface materials present in Individual Substance Sites (IHSS) which comprise OU5 to support the decision not to evaluate the mining scenario in the RFI/RI process

The Mining Exposure Scenario for Baseline Risk Assessments at the Rocky Flats Environmental Technology Site dated August 9 1994 concluded that the potential of a mining scenario at OU 5 is low because it contains less than ten feet thick of continuous Rocky Flats Alluvium. The following is a description of the subsurface materials encountered within each IHSS in OU5 as determined from available boring logs

IHSS 115/196

Based on the available boring logs the subsurface lithology is summarized as follows from north to south Zero to 30 feet maximum is Rocky Flats Alluvium (primarily sandy clay with gravel to clayey sand with gravel) zero to 15 feet maximum is of waste/fill material and zero to 15 feet is of colluvial and alluvial material (primarily clay) Claystone bedrock underlies the above materials

IHSS 133 1

Based on the available boring logs the subsurface lithology is summarized as follows. Six to seven feet maximum is of colluvial and alluvial material (primarily sandy gravel). Claystone bedrock underlies the colluvial and alluvial material

IHSS 133.2

SIGNATURE

AUTHORIZED CLASSIFIER Based on the available boring logs the subsurface lithology is summarized as follows. Ten to 27 feet maximum is of colluvial and alluvial material (primarily sandy gravel and sandy clay). Claystone bedrock underlies the colluvial and alluvial material

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<u>IHSS 133 3</u> IN REPLY TO REP CC NO

Based on the available boring logs the subsurface lithology is summarized as follows. Approximately six feet of colluvial and alluvial material (primarily gravelly sand) exists with claystone bedrock underlying the colluvial and alluvial material

ACTION ITEM STATUS J PARTIAL/OPEN J CLOSED

ORIG & TYPIST, INITIALS

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LTR APPROVALS

IHSS 133 4

Based on the available boring logs the subsurface lithology is summarized as follows. Four to 23 feet maximum is of colluvial and alluvial material (primarily silty clay and sandy gravel). Claystone bedrock

underlies the colluvial and alluvial material

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### IHSS 133.5

Based on the available boring logs, the subsurface lithology is summarized as follows. Approximately 24 feet of Rocky Flats Alluvium (primarily silty sand, sand, and gravelly sand) exists with claystone bedrock underlying the alluvium. This IHSS is at the edge of the Rocky Flats Alluvium pediment surface.

### IHSS 133.6

Based on the available boring logs, the subsurface lithology is summarized as follows. Approximately nine feet of colluvial and alluvial material (primarily gravelly and, silty sand, and silty clay) exist with claystone bedrock underlying the above materials

#### <u> IHSS 209</u>

Based on the available boring logs, the subsurface lithology is summarized as follows. Approximately 31 feet is of colluvial and alluvial material (primarily gravelly sand, silty sand, and silty clay). Claystone bedrock underlies the colluvial and alluvial material.

## Surface Disturbance West of IHSS 209

Based on the available boring logs, the subsurface lithology is summarized as claystone bedrock subcropping at the surface

# Surface Disturbance South of IHSS 133

Based on the available boring logs, the subsurface lithology is summarized as follows. Approximately 26 feet is of colluvial and alluvial material (primarily gravelly sand, silty sand, and clayey sand). Claystone bedrock underlies the colluvial and alluvial material.

#### Summary

At Operable Unit 5 minable sand and gravel deposits that are greater than 20 feet in thickness exist along the northern edge of IHSS 115 133 5 and 209 and the surface disturbance south of IHSS 133 However the areal extent of these IHSSs is limited because they are on the edge of the Rocky Flats Alluvium pediment surface. Based on the limited volume of minable material available, these locations would not be amenable to mining.

If I can provide any additional information please call me at 966-9100 or Mark Wood at 966-8784

Carol A Bicher

Operable Unit No 5 Closure

Varal list

**Environmental Restoration Program Division** 

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